Our File: I-2-0173.2US

Date:

May 20, 2002





De et al.

in the PATENT APPLICATION of:

Application No.:

10/080,212

Filed:

02/21/2002

For: SINGLE USER DETECTION USER

EQUIPMENT

Group:

Not Yet Known

Examiner:

Not Yet Known

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents Washington, D.C. 20231

Sir:

Further to applicant's Duty of Disclosure pursuant to 37 C.F.R. § 1.56, applicant wishes to bring to the Examiner's attention the material cited on the enclosed PTO-1449 form.

Applicant: De et al. Application No.: 10/080,212

It is respectfully requested that the Examiner consider these documents and return an Respectfully submitted,

De et al.

Jeffrey M. Glabicki

Registration No. 42,584

(215) 568-6400

Volpe and Koenig, P.C. Suite 400, One Penn Center 1617 John F. Kennedy Boulevard Philadelphia, PA 19103

JMG/jrd Enclosures

TRANSMITTAL FORM

Please type a plus sign (+) inside this box ———————————————————————————————————	equired to re	U.S. Patent and Tradema	ed for use through 10/31/2002. OM irk Office: U.S. DEPARTMENT OF	COMM)8-00) 0031 ERCE	7-29
Order the Paperwork Reduction Action See, no parent and		Application Number	10/080,212	chno	3	RE
TRANSMITTAI	L	Filing Date	2/21/2002	logy	Y 2	CE
FORM		First Named Inventor	De et al.	Cent	4 2	7
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		Examiner Name	Not Yet Known	8		
Total Number of Pages in This Submission	7	Attorney Docket Number	I-2-0173.2US)	l

Total Number of Pages in This Submi	ssion 7 Attorney Docket Number	1-2-0173.205
	ENCLOSURES (check	all that apply)
Fee Transmittal Form Fee Attached Amendment / Reply After Final Affidavits/declaration(s) Extension of Time Request Express Abandonment Request Information Disclosure Statement Certified Copy of Priority Document(s) Response to Missing Parts/ Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53	Assignment Papers (for an Application) Drawing(s) Licensing-related Papers Petition Petition to Convert to a Provisional Application Power of Attorney, Revocation Change of Correspondence Address Terminal Disclaimer Request for Refund CD, Number of CD(s) Remarks	After Allowance Communication to Group Appeal Communication to Board of Appeals and Interferences Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) Proprietary Information Status Letter Other Enclosure(s) (please identify below):
SIGNATU	JRE OF APPLICANT, ATTORNEY, OR	AGENT
Firm JEFFREY M. or Individual name Volpe and Ko Signature May 20, 2002	GLABICKI penig, P.C.	Reg. No. 42,584

	CERTIFICATE OF MA	AILING	
I hereby certify that this correspondence is baddressed to: Commissioner for Patents, W	being deposited with the United States Postal Service with sufficient Ashington, DC 20231 on this date:	ent postage as first class mail	in an envelope May 20, 2002
Typed or printed name	JEFFREY M. GLABICKI		
Signature	Willam Man A Willette	Date	May 20, 2002

O1PE VO 12 2002 25

Volpe and Koenig Revision of PTO/SB/17 (10-01)
Approved for use through 10/31/2002. OMB 0651-0032
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FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT (\$) 0

Complete if Known						
Application Number	10/080,212					
Filing Date	2/21/2002					
First Named Inventor	De et al.					
Examiner Name	Not Yet Known					
Group Art Unit	Not Yet Known					
Attorney Docket No.	I-2-0173.2US					

METHOD OF PAYMENT	FEE CALCULATION (continued)	
The Commissioner is hereby authorized to charge	3. ADDITIONAL FEES	n
indicated fees and credit any overpayments to: Deposit	3. ADDITIONAL FEES Large Small Entity Entity Fee Fee Fee Fee Fee Code (\$) Small Fee Description 99	H
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Name	127 50 227 25 Surcharge - late provisional filing	n
Charge any Deficiencies or Credit any Overpayment in the Total Fees Associated With This Communication	2 2 0	''
Applicant claims small entity status.	139 130 139 130 Non-English specification	
See 37 CFR 1.27	147 2,520 147 2,520 For filing a request for ex parte reexamination	
2. Payment Enclosed:	112 920* 112 920* Requesting publication of SIR prior to Examiner action .	
Check Credit card Order Other	113 1,840* 113 1,840* Requesting publication of SIR after	
FEE CALCULATION	Examiner action	
1. BASIC FILING FEE	115 110 215 55 Extension for reply within first month	
Large Entity Small Entity	116 400 216 200 Extension for reply within second month	
Fee Fee Fee Fee Description Code (\$) Code (\$) Fee Paid	117 920 217 460 Extension for reply within third month	
101 740 201 370 Utility filing fee	118 1,440 218 720 Extension for reply within fourth month	
106 330 206 165 Design filing fee	128 1,960 228 980 Extension for reply within fifth month	
107 510 207 255 Plant filing fee	119 320 219 160 Notice of Appeal	
108 740 208 370 Reissue filing fee	120 320 220 160 Filing a brief in support of an appeal	
114 160 214 80 Provisional filing fee	121 280 221 140 Request for oral hearing	
SUBTOTAL (1) (\$) 0	138 1,510 138 1,510 Petition to institute a public use proceeding	
	140 110 240 55 Petition to revive - unavoidable	
2. EXTRA CLAIM FEES Fee from	141 1,280 241 640 Petition to revive - unintentional	
Extra Claims below Fee Paid	142 1,280 242 640 Utility issue fee (or reissue)	
Total Claims ** = X = Independent ** v = v	143 460 243 230 Design issue fee	
Claims ————————————————————————————————————	144 620 244 310 Plant issue fee	
Multiple Dependent	122 130 122 130 Petitions to the Commissioner	
Large Entity Small Entity	123 50 123 50 Processing fee under 37 CFR 1.17(q)	
Fee Fee Fee Fee Description	126 180 126 180 Submission of Information Disclosure Stmt	
Code (\$) Code (\$)	581 40 581 40 Recording each patent assignment per property (times number of properties)	
103 18 203 9 Claims in excess of 20 102 84 202 42 Independent claims in excess of 3	146 740 246 370 Filing a submission after final rejection	
	(37 CFR § 1.129(a))	
	149 740 249 370 For each additional invention to be	
109 84 209 42 ** Reissue independent claims over original patent	examined (37 CFR § 1.129(b))	
110 18 210 9 ** Reissue claims in excess of 20	179 740 279 370 Request for Continued Examination (RCE)	
and over original patent	169 900 169 900 Request for expedited examination of a design application	
SUBTOTAL (2) (\$) 0	Other fee (specify)	
SUBTOTAL (2)		0
**or number previously paid, if greater, For Reissues, see above	*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$)	

SUBMITTED BY			Complete (if applicable)			
Name (Print/Type)	Jeffrey M. Glabicki,	Registration No. (Attorney/Agent)	42,584	Telephone	215-568-6400	
Signature	Man M. Planch			Date	May 20, 2002	

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FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

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APPLICANT De et al.

FILING DATE 2/21/2002

SERIAL NO. 10/080,212 hno 09y Center 260 Not Yet Know60

U.S. PATENT DOCUMENTS

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EXAMINER INITIAL		DOCUMENT NUMBER			DATE	NAME	: - 	CLASS	SUBCLASS		DATE IF			
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	THER	D	ocu	MEN	ITS	(Ir	ıclı	ıding Aut	hor, Title, D	ate, Perti	nent P	ages, l	Etc.)	
	AA		Ra	Ramjee Prasad, Werner Mohr and Walter Konhauser editors, <i>Third Generation Mobile Communication Systems</i> , Artech House, Boston, 2000.										
	АВ		Mini	Anja Klein, Ghassan Kawas Kaleh and Paul Walter Baier, "Zero Forcing and Minimum Mean-Square Error Equalization for Multiuser Detection in Code-Division Multiple-Access Channels", <i>IEEE Trans. on Vehicular Technology</i> , Vol.45, No. 2, pp. 276-287, May 1996.										
	AC			Naja Klein, "Data Detection Algorithms Specially Designed for the Downlink of CDMA Mobile Radio Systems", <i>IEEE 47th Vehicular Technology Conference</i> , pp. 203-207, May 1997.										
	AD		Join	H.R. Karimi and N.W. Anderson, "A Novel and Efficient Solution to Block-Based Joint-Detection using Approximate Cholesky Factorization", <i>Personal, Indoor and Mobile Communications PIMRC' 98,</i> Conference Proceedings, Vol. 3, pp. 1340-1345, Sept. 1998, Boston, MA.										
	AE			ETSI STC SMG2 Layer 1 Expert Group, "Low Cost MMSE-BLE-SD Algorithm for JTRA TDD Mode Downline", Tdoc SMG2 UMTS L1, Helsinki, Finland, Sept. 1998.										
	AF		Re	3G TS 25.102 V3.4.0, 2000-10, "UTRA (TDD) Radio Transmission and Reception", 3rd Generation Partnership Project, Technical Specification Group RAN WG4, Annex B., pp. 37.										
EXA	MINER									DATE C	ONSIDE	RED		

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.